



PANGOLIN PRODUCT CATALOG



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PROFILE

Since 1986, Pangolin has amassed over 16,000 clients in 63 countries, firmly positioning our company as the world leader; providing software and hardware solutions to the laser display, entertainment, and SMS industries. We currently have offices in the USA, Central Europe, and Mainland China.

Our products have received more than 20 awards for technical achievement and product quality. In addition, we have contributed to more than 370 Artistic Awards for our clients.

The list of clients, who are using Pangolin's products is impressive and huge. It includes some of the largest

companies, events and brands including major theme parks such as Disney World, SeaWorld, Universal Studios, and Six Flags; major motion picture companies such as 20th Century Fox and DreamWorks pictures; high-tech companies such as PC Magazine, Boeing, and Lawrence Livermore Labs; popular brands such as Mountain Dew, T-Mobile, and Motorola; major sports teams and events such as the Orlando Magic, Philadelphia Eagles, and Super Bowl XLIV; and top-named musical talents including Madonna, Drake, Usher, Metallica, the Black Eyed Peas, Jennifer Lopez, Shakira, Jean Michel Jarre, DJ Tiesto, Swedish House Mafia, Justin Timberlake, PITBULL and many others.



Worldwide Offices

USA Office and Headquarters

9501 Satellite Blvd, suite 109
Orlando, FL 32837
Phone: +1 (407) 299-2088
Fax: +1 (407) 299-6066
Email: contact@pangolin.com

Pangolin China Branch Office

Room 902, Yueken Lu #116, Tianhe district
Guangzhou City, 510430 China
Phone: +86 (20) 3828 3317
Mobile: +86 (136) 8889 8726
Email: alex@pangolin.com

Pangolin Europe Branch Office

Pangolin d.o.o., Podutiška cesta 75
1000 Ljubljana, Slovenia
Phone: +386 (1) 517 4270
Fax: +386 (1) 517 4275
Email: ante@pangolin.com

Pangolin Repair & Service Center

Collimated, Achillesstraat 3A
4625CG, Bergen op Zoom
Netherlands
Phone: +31 (6) 520 38384
Email: francesco@collimated.com

Product and Social Websites

Product Websites

Main Pangolin website: www.pangolin.com
QuickShow website: www.quickshowlaser.com
BEYOND website: www.pangolinbeyond.com
SMS products website: www.pangolinsms.com
Virtual DJ plugins: www.pangolinplugins.com
ScannerMAX website: www.scannermax.com
LASORB website: www.lasorb.com

Social Media Websites

Facebook: www.facebook.com/pangolinsystems
Twitter: www.twitter.com/pangolinsystems
YouTube: www.youtube.com/pangolinshows
Pangolin Shows Portal: www.pangolinshows.com



INFORMATION



MISSION

Our mission is to design, engineer, and manufacture laser control, industrial laser and SMS products using the very latest technologies. This ensures that we meet

and exceed our clients expectations, and help the applications they use our products in, perform at the highest level of excellence.





For over 25 years, Pangolin has been fully committed to providing our clients with the highest quality products. We back up our commitment to you with a team of skilled employees, which are here to ensure your entire experience with Pangolin is first class all the way.

We have a full customer support team available nearly 24 hours a day, to help answer all of your questions. And with offices in the USA, Central Europe, and Mainland China, we are able to respond to client demands immediately, ensuring that your needs are met.

Pangolin dealer network currently operates in over 35 countries worldwide, so no matter where you are located, there is a Pangolin representative available to help you.

Our top priority is to exceed our clients' expectations, and this is the driving force behind our commitment to you.



COMMITMENT



EXPERTISE

Our company is proud to offer clients the very latest technological solutions in the fields of laser display and SMS technologies. We currently have 11 patents for products we have introduced, which have led to major breakthroughs in the laser display and SMS industries. Our products have received more than 20 International

awards for technical achievement and our software has contributed to over 370 international awards for our clients.

Let our passion for innovation, product quality, and great customer support help your business reach its goals.





Pangolin has a team of highly skilled employees, fluent in multiple languages, and trained to make sure your entire experience with us is top notch.

Our employees have gone through a vigorous recruitment process and receive ongoing training, to ensure that they have the ability to meet your needs as a client, and have a friendly personality to match.

From point of sale and order processing, to customer support and training, our team is here to ensure that all of your needs are taken care of.

Here at Pangolin, you are our top priority, and our team attitudes reflect this philosophy.

We will go above and beyond to ensure that when you deal with Pangolin, you are treated with only the highest standards of customer service.

This is our employees' promise to you as a Pangolin client.



TEAM



Jay-Z and Kanye West



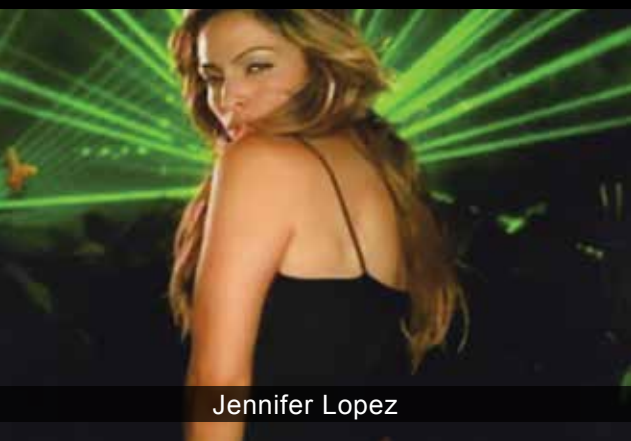
Linkin Park



Usher



Pink Floyd



Jennifer Lopez



Disneyland "World of Color"



Trans Siberian Orchestra



Six Flags



Tiesto



Muse



Katy Perry



Metallica



**POWERED
BY PANGOLIN**

The world's leading laser show companies choose Pangolin's systems to control the lasers at their venues and events. They know that when the show is on the line, they can trust in Pangolin products to produce wonderful laser light shows, time and time again.

We have worked hard to produce products that give you all of the professional tools you need to create stunning laser light shows. Pangolin systems are the most reliable, dependable, and most easy to use on the market. This is why the world's biggest and best laser light shows are Powered by Pangolin.

Above are just some of the notable clients who trust Pangolin to power the lasers at their shows.

If you want to produce laser light shows that amaze your audience...

...Make sure your lasers are Powered by Pangolin!



LASER SHOW CREATION SYSTEMS

Software and hardware packages used to create the world's best laser light shows

QUICKSHOW



**LASERSHOW
SYSTEMS**

Powerful, Affordable, and Easy to Use...

QuickShow is a complete package including both the FB3QS hardware and QuickShow software.

QuickShow comes with nearly 2,000 pre programmed cues already included. Our Quick Tools make designing custom beam effects, graphics, text, animations, abstracts, and timeline based shows easier than ever before. Whether you're a new to lasers or a seasoned professional you can get amazing results in just minutes.

If you want to create stunning laser light shows, without spending a fortune, then QuickShow is the answer. We carry stock of QuickShow in the USA, Europe, Asia, Australia and South America and can ship to clients from any one of these locations.

We also offer a free demo version of QuickShow online.

FB3QS HARDWARE



QUICKSHOW SOFTWARE



Hardware: The QuickShow package comes with the FB3QS hardware. Simply plug the hardware into your computer's USB port, and use an ILDA connector to output to the projector.

Software: The QuickShow package comes with the latest QuickShow software and all updates are FREE to our users. The software is extremely powerful, yet easy to use. Users can create their own effects, or choose from any of the nearly 2,000 preloaded cues. You can also preprogram shows, or play them "live" right at your event. The QuickShow software is proven to make the output from the laser projector look better. QuickShow users can also upgrade to use the BEYOND software.

- Nearly 2,000 cues included
- Quick Tools to create content
- Virtual Laser Jockey Feature
- Built in image tracer and timeline
- Built in Abstract Generator
- Unlimited Tracks
- Supports DMX-512 in and out
- Supports MIDI input
- Live and pre-programmed control
- Multi-Language Support



**LASERSHOW
SYSTEMS**

BEYOND WITH QM2000



BEYOND WITH FB3QS



**LASERSHOW
SYSTEMS**

BEYOND is an all new professional level software, used for creating the world's highest quality laser shows. It is a complete system, and combines all of the power and functionality of LD2000, with the ease of use and speed of QuickShow.

BEYOND comes standard with the BEYOND software, and the FB3QS or QM2000 hardware. It is available in three levels: Essentials, Advanced, and Ultimate. It is downward compatible with both LD2000 and QuickShow, so you can play all of your favorite shows on the BEYOND platform.

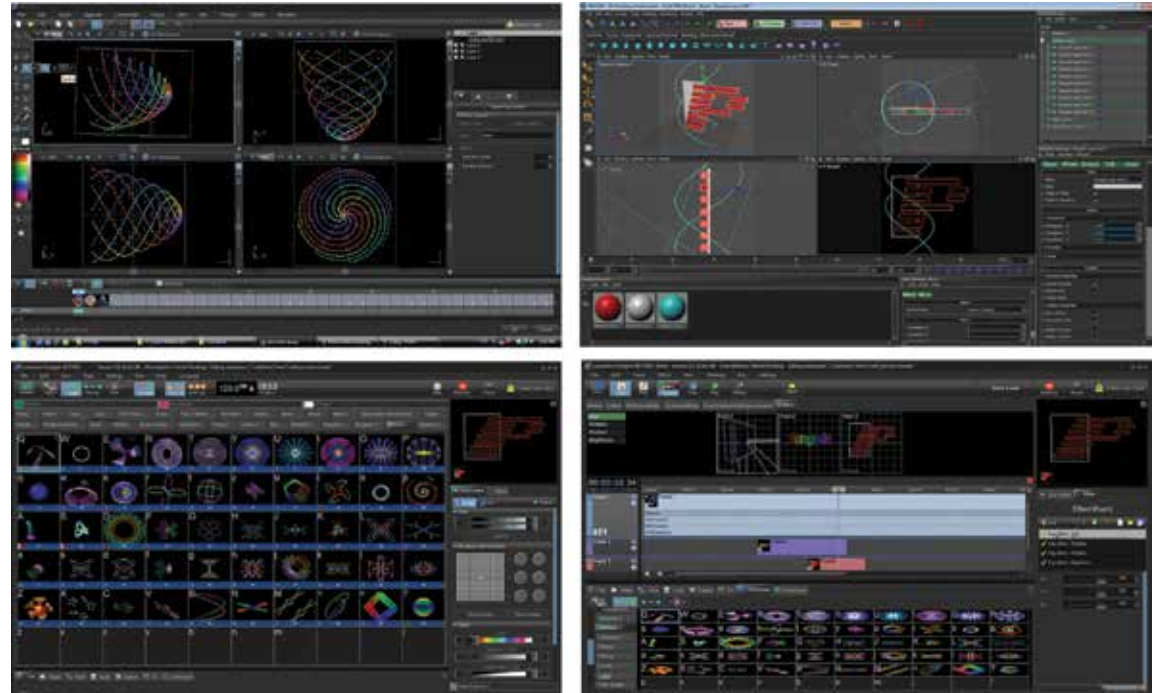
There is also a convenient upgrade path between the different levels of BEYOND, and existing LD2000 and QuickShow users can upgrade their software to BEYOND.

For more information on the different levels of BEYOND, please contact Pangolin or visit our website.

FB3QS HARDWARE



QM2000 HARDWARE



Hardware: The BEYOND can work with either QM2000 based hardware, or with Flashback 3 QS. It is your choice, which hardware you want with BEYOND software.

Software: The BEYOND software is available in three levels, Essentials, Advanced, and Ultimate, and you can upgrade from a lower level to a higher level at any time.

All future software updates are FREE. BEYOND is also compatible with QuickShow and LD2000, so you can create content in either of those software platforms, and load it into BEYOND. The BEYOND software is proven to make the output from the laser projector look better.

- Most advanced laser drawing program
- Control virtually unlimited number of laser projectors
- 3-D animation and modeling program included (comes with Ultimate Version)
- Control up to 100 beam positions
- Quick Tools included with visual scripting
- Work on multiple shows simultaneously
- Works with all Pangolin hardware, including network configuration
- Unified Architecture
- The world's most advanced DMX, MIDI, OSC and ArtNet Control



**LASERSHOW
SYSTEMS**

LASERSHOW DESIGNER 2000



**LASERSHOW
SYSTEMS**

Lasershow Designer 2000 (LD2000) is a professional level software, used for creating the highest quality laser shows.

It is a complete system, and comes with the LD2000 software, and QM2000 hardware. It is available in three levels: Intro, Basic, and Pro.

Pangolin also offers a convenient upgrade path between these versions. Just about anything you want to do with laser graphics and beams, you can do with LD2000. It comes with 150 preprogramed laser shows, and over 300,000 laser clip art frames.

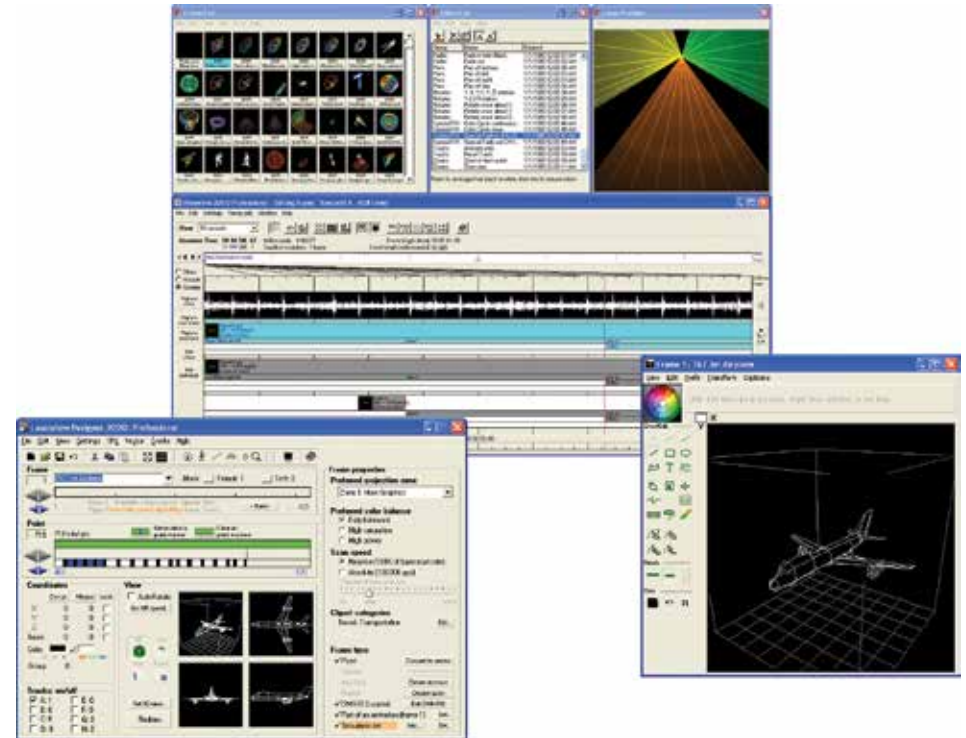
LD2000 has won more awards for clients than any other laser controller on the market today!

For more information on the different levels of LD2000, please contact Pangolin or visit our website.

QM2000 HARDWARE



LD2000 SOFTWARE



Hardware: The LD2000 System comes with the QM2000 PCI board.

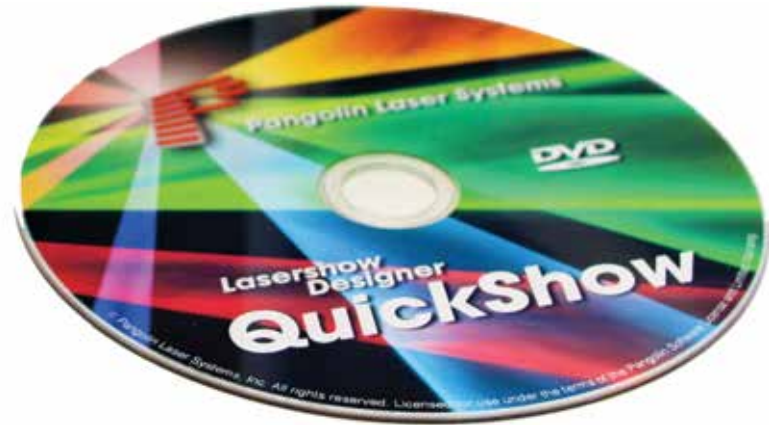
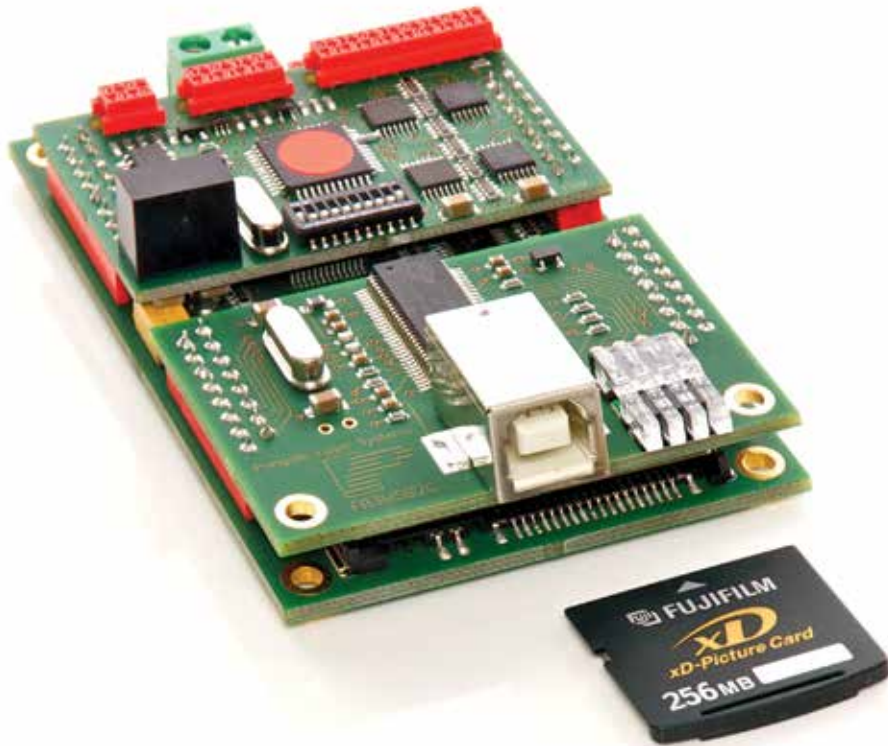
Software: LD2000 is actually a suite of programs and utilities that work together to create and sequence images into animated laser light shows. These can be played back with audio, video, DMX-512 controlled lights and pyro. There are three versions of LD2000 (Intro, Basic, and PRO) and you can upgrade from a lower level to a higher level. All LD2000 software updates are FREE for existing users.

- Lasershow Designer - drawing program
- Showtime - timeline-based show creation system
- Autoplay - simple show playback program
- Live! - cue triggering program for live events
- TraceIT - bitmap graphic tracing utility
- Lasershow Video VST - Video to laser converter
- AVS - Laser music visualization plug-in
- Includes over 150 FREE laser shows
- Includes over 300,000 laser frames and animations



**LASERSHOW
SYSTEMS**

FLASHBACK 3 SE (FB3SE)



**LASERSHOW
SYSTEMS**

The Flashback 3 SE is the smallest, easiest and most economical way to add high-quality graphics and beams to a stand-alone laser projector. In fact, the FB3SE is so impressive, that it won the ILDA Hardware Product Of The Year Award in 2006. This credit-card sized wonder can play laser graphics, beams and even complete Pangolin-quality shows.

To use the Flashback 3 SE, no extra computer hardware is needed - the tiny FB3SE has everything you need to control your laser projector.

The Flashback 3 SE is generally embedded directly into your laser projector, for quick and easy playback. Using the FB3SE, you can download shows onto an XD card, for easy playback on your projector. No computer is necessary.

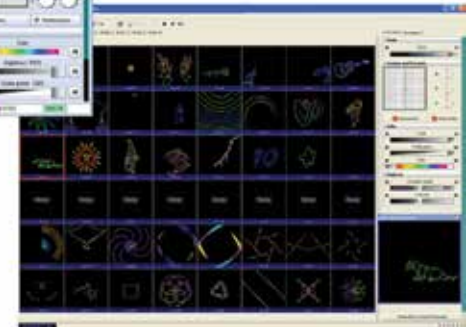
FB3SE HARDWARE



QUICKSHOW AND LIVEQUICK SOFTWARE



Quickshow



LiveQuick

Hardware: The FB3SE package comes with the FB3SE hardware and a removable XD card for easy upload of shows, frames, animations, beam effects, and graphics so that they can be played back in stand alone mode without a PC (controlled by DMX-512). The FB3SE is suitable for embedding directly into your laser projector.

Software: The FB3SE comes standard with two free software applications, QuickShow and LiveQuick. You can create shows in QuickShow and port them over to LiveQuick for easy playback using the DMX-512 control.

- Includes the QuickShow and LiveQuick Software
- DMX control options
- USB control options
- Stand alone playback using LiveQuick software
- OEM - embed it directly into your projector
- Play cues (up to 432 in memory and more in QS)
- Requires only a single 5V DC power supply



**LASERSHOW
SYSTEMS**





SOFTWARE UPGRADE OPTIONS

We offer a variety of upgrade options for your lasershow creation software

QUICKSHOW UPGRADE OPTIONS



UPGRADE OPTIONS

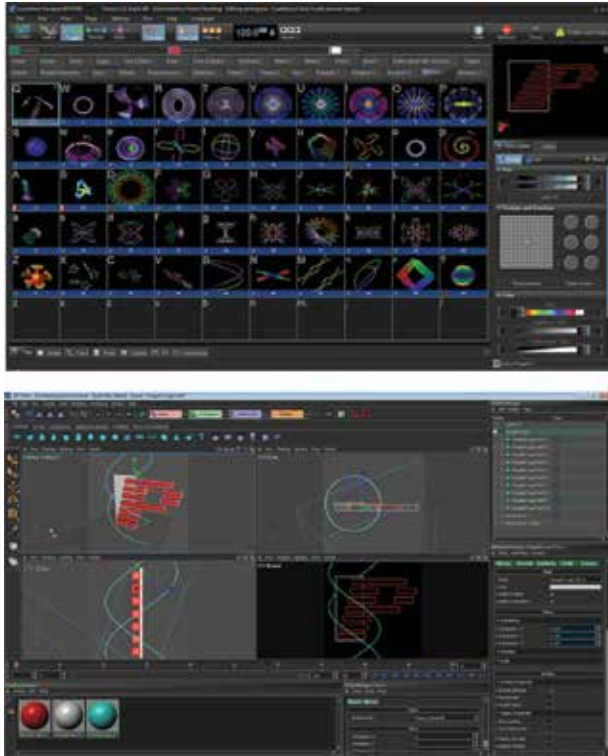
You may get to a point where you need even more power and control than QuickShow offers. When that happens, you may want to consider using our professional-level BEYOND software.

Pangolin offers you a variety of upgrade options to accommodate your needs.

These upgrade options include:

- Upgrade from QuickShow to BEYOND Essentials
- Upgrade from QuickShow to BEYOND Advanced
- Upgrade from QuickShow to BEYOND Ultimate

BEYOND UPGRADE OPTIONS



You may get to a point where you desire even more power from your BEYOND software.

Pangolin offers BEYOND users the ability to upgrade between the different versions of BEYOND.

These upgrade options include:

- Upgrade from BEYOND Essentials to Advanced
- Upgrade from BEYOND Essentials to Ultimate
- Upgrade from BEYOND Advanced to Ultimate

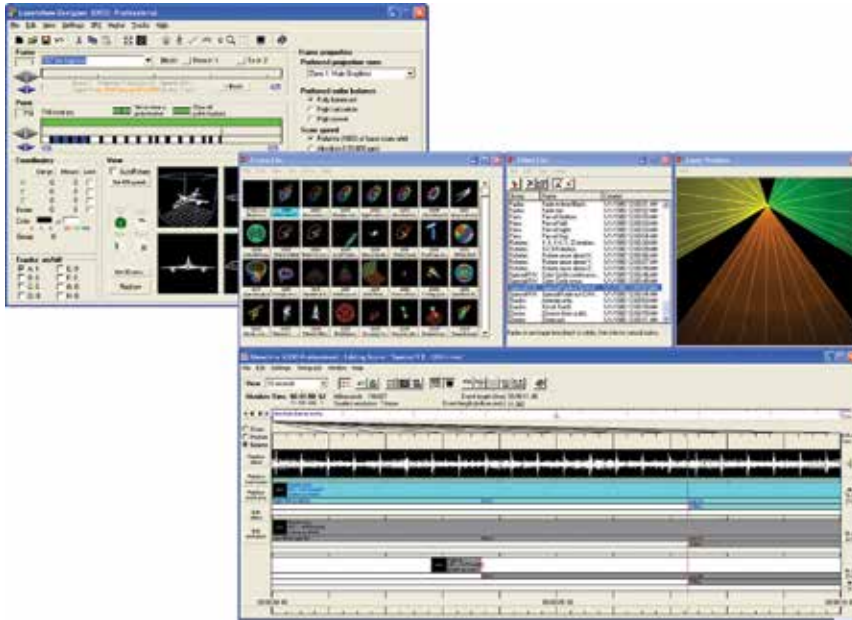


**UPGRADE
OPTIONS**

LD2000 UPGRADE OPTIONS

UPGRADES FROM LD2000 TO BEYOND

Upgrades within LD2000



UPGRADE
OPTIONS

You may get to a point where you desire even more power from your LD2000 software.

Pangolin offers LD2000 users the ability to upgrade between the different versions of LD2000, or the choice to upgrade to the all new BEYOND platform.

These upgrade options include:

- Upgrade from LD2000 Intro to Basic
- Upgrade from LD2000 Intro to PRO
- Upgrade from LD2000 Basic to PRO
- Upgrade from any version of LD2000 to BEYOND Essentials, Advanced, or Ultimate



ADDITIONAL PANGOLIN HARDWARE PRODUCTS

Add on hardware for your laser show systems

QM2000.NET LAPTOP BOX FOR QM2000 HARDWARE



HARDWARE

For portability, Pangolin also offers a small, lightweight unit, which will house the QM2000 hardware and allow you to use it with a laptop computer.

This sturdy laptop-friendly box includes the power supply and the Network Adapter Board. This box can be connected to your local network or directly to your computer. The size of this small box is 7.5 × 7.5 × 1.5 inches (19 × 19 × 3.8cm). The QM2000.NET Laptop Box is great if you want to expand the number of projectors controlled, or create largescale shows using numerous laser projectors, this is no problem since you only need to connect them together with standard 10/100 Ethernet cables.

Note that some QM2000 boards may require an upgrade, in order to work in .NET configuration:

- QM2000 boards under serial number 3400 will not be able to work in a .NET configuration.
- QM2000 boards under serial number 7400 will require a .NET upgrade in order to work in a network configuration.
- QM2000 boards over serial number 7400 will work in a .NET configuration without any upgrade required.

In case your QM2000 needs an upgrade, Pangolin has service and support centers located around the globe.

QM2000.NET 19-INCH RACK MOUNT FOR QM2000 HARDWARE



Pangolin's 19-inch Rack Mount hardware platform is a combination of a QM2000 board with Pangolin's Network Adapter Board installed inside of a 19-inch Rack Mount housing. This is sold as a 19-inch rack mount enclosure which includes a power supply, Network Adapter Board and associated wiring.

This is a very good hardware configuration for fixed installations such as amusement parks and cruise ships where rack-mounted equipment is commonplace.

Note that some QM2000 boards may require an upgrade, in order to work in .NET configuration:

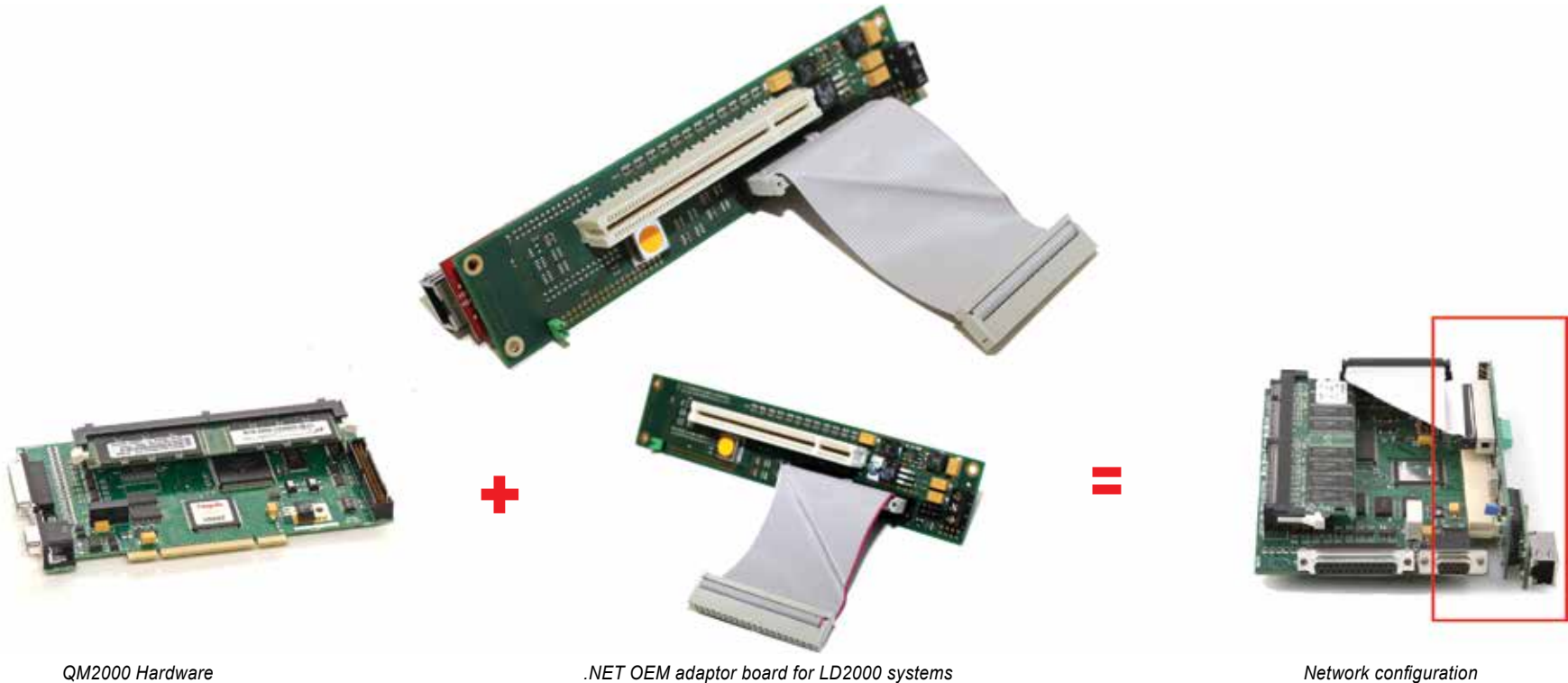
- QM2000 boards under serial number 3400 will not be able to work in a .NET configuration.
- QM2000 boards under serial number 7400 will require a .NET upgrade in order to work in a network configuration.
- QM2000 boards over serial number 7400 will work in a .NET configuration without any upgrade required.

In case your QM2000 board needs an upgrade, Pangolin has service and support centers located all around the globe. Contact us for more information about it.



HARDWARE

QM2000.NET OEM ADAPTOR BOARD FOR LD2000 SYSTEMS



HARDWARE

Our QM2000.NET adaptor is also available as an OEM solution. If you want to expand the number of projectors controlled, or create large scale shows using numerous laser projectors, the QM2000.NET is the way to go.

Many clients buy our QM2000.NET board so that they can embed the QM2000 directly into their projector, and then also run it in a network configuration. You can connect all of your projectors together using standard 10/100Mb Ethernet cables.

Note that some QM2000 boards may require an upgrade, in order to work in .NET configuration:

- QM2000 boards under serial number 3400 will not be able to work in a .NET configuration.
- QM2000 boards under serial number 7400 will require a .NET upgrade in order to work in a network configuration.
- QM2000 boards over serial number 7400 will work in a .NET configuration without any upgrade required.

In case your QM2000 board needs an upgrade, Pangolin has service and support centers located all around the globe. Contact us for more information about it.

DISCOSCAN LENS



The Discoscan Lens is an “electronic mirror ball” for your laser projector. In a disco or nightclub, you often want beams to fill the space, but it is sometimes difficult. The solution is the Discoscan Lens, a super-wideangle lens designed specifically for laser projectors. Laser beams can go anywhere in a 360° hemisphere.

For example, put a Discoscan-equipped projector near the center of your lighting rig, pointed straight down at the dance floor and beams will hit all four walls, as well as every corner of the floor.

You can also do graphics with the Discoscan, as shown in the photo. Imagine the name of your disco or the evening’s DJ, projected on the floor along with an array of beams!



HARDWARE

SMPTE TIMECODE READER/WRITER TC2000



HARDWARE

Some installations require synchronization with other media, like audio, video, pyrotechnics, etc...

The standard method to synchronize all these media is using SMPTE timecode. The timecode is recorded on one audio track by SMPTE writer, and later at playback time, this audio track is read and decoded by SMPTE timecode reader. TC2000 can work either as SMPTE writer or SMPTE reader.

In writing mode, TC2000 outputs a SMPTE-encoded audio signal, which can be used directly, or it can be recorded to diverse media for later use.

In reading mode, TC2000 decodes SMPTE timecode from audio signal and passes it to LD2000 or BEYOND. Playback of your laser show is then locked to the incoming SMPTE timecode, which results in a perfectly synchronized multimedia shows.

Software to control the TC2000 is built right into the Pangolin's LD2000 and BEYOND software. If you enable SMPTE, the laser show will follow the timecode exactly

In addition, our new TC2000 is completely powered over USB, and it eliminates the need for an external power supply or other external support devices.

ENTTEC DMX USB PRO DEVICE FOR QUICKSHOW AND BEYOND



If you want to control the QuickShow software remotely via DMX, then the best way to do this is by using the ENTTEC DMX USB PRO interface. Pangolin is currently a dealer for this product, so we can now offer this product to you for a great price.

The ENTTEC DMX USB PRO device comes with the following product specifications:

- Microprocessor enabled
- 1500 V full isolation (data & power lines) to protect your computer from surges
- 1 Input & 1 Output connector (can be used either for input or output, but not simultaneously)
- RDM enabled
- Supports Various 3rd party Controllers/VJs/Tools
- Internal frame buffering
- Drivers for Windows, OSX and Linux
- Universe & user config EEPROM
- Refresh Rate configurable 1 to 40 Hz
- Break configurable from 96 μ s to 1.3 ms
- MAB configurable from 10.6 μ s to 1.3 ms
- Upgradeable firmware

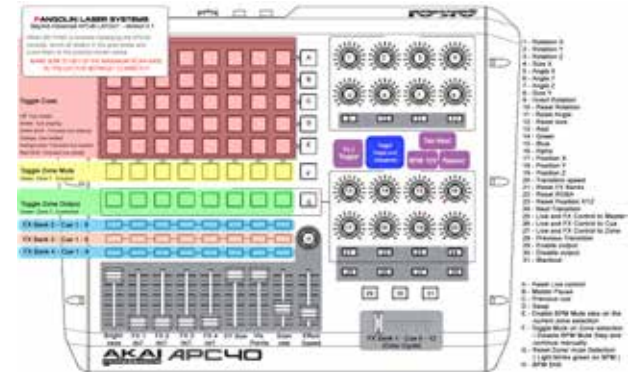


HARDWARE

APC40



APC40 Profile



Custom APC40 Skin



HARDWARE

The Akai APC40 is a well known MIDI console which is now distributed by Pangolin. The APC40 is great for “live” laser shows, and for clients who prefer to operate their shows using a console, rather than a standard PC user interface. Pangolin has also created a custom MIDI profile for the APC40 which works with our BEYOND laser control software. This profile maps out the device with the most popular laser effects and offers an easy and convenient way of controlling your laser projectors and shows

In addition, we have created a custom APC40 Skin that you can easily place on top of the device. This skin helps to protect the APC40, and also shows you exactly what each slider, button and knob on the device does.



SAFETY PRODUCTS

Additional safety products for your laser projectors and systems

SAFETY SCAN LENSES



SAFETY

Pangolin's patented Safety Scan Lenses were designed to make your shows safer, while at the same time allowing your shows to still be visually impact-full.

The Safety Scan Lens is a half lens, which will increase the divergence of the laser beam by a specified amount, when it is projected into the audience. Due to the fact that it is a half lens, the laser beam is not affected when projected overhead, it is only diverged when shone into the audience. Thus, the end effect is that you are able to create a stunning laser light show, and keep the beams which project on the audience at a fun and safe level.

Pangolin currently produces six different lenses, and

each lens increases the divergence of the beam by a different amount.

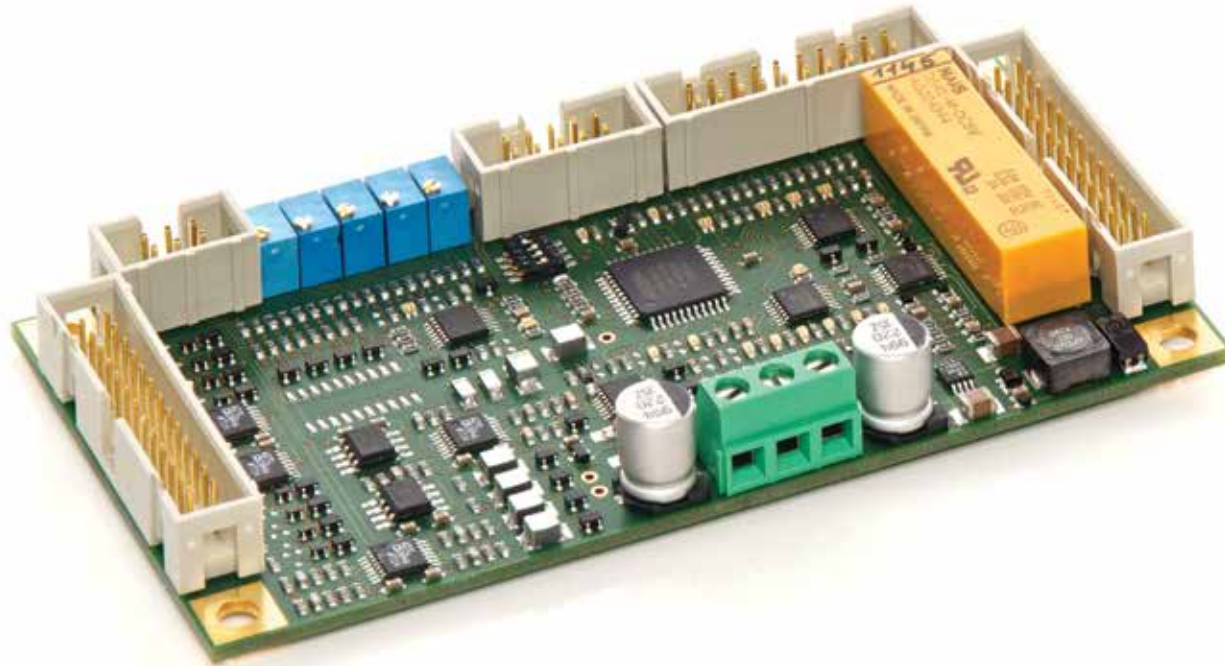
We offer you the option of acquiring single lenses at a specified divergence level, or you can get a kit including all six lenses packed into a convenient carrying case.

In addition to the SafetyScan lenses, we also make a universal mount that can easily be attached to most laser projectors, and offers three degrees of freedom when adjusting the lens's position.

Additional information on which lens is right for you, and product datasheets can be found on our website.

*US Patent number 8,506,087

PROFESSIONAL AUDIENCE SAFETY SYSTEM - PASS



PASS is a unique system based on almost entirely analog components. When used with the proper integration and show production techniques, PASS can guarantee the safety of Audience Scanning laser light shows.

PASS continually monitors the laser power, scanner signals, and other projector related parameters to ensure that your shows are safe. PASS is significantly more advanced than any previous “scan-fail” or laser safety product on the market.

It went through ten years of research and development, and two years of U.S. government evaluation, to determine that it is in fact a guaranteed laser safety device for Audience Scanning.

PASS received the 2007 first place ILDA Fenning Award for Technical Achievement.

In 2010 it was granted a US Patent, and in 2011 it was granted an Australian Patent. Other international patents are currently pending.



SAFETY

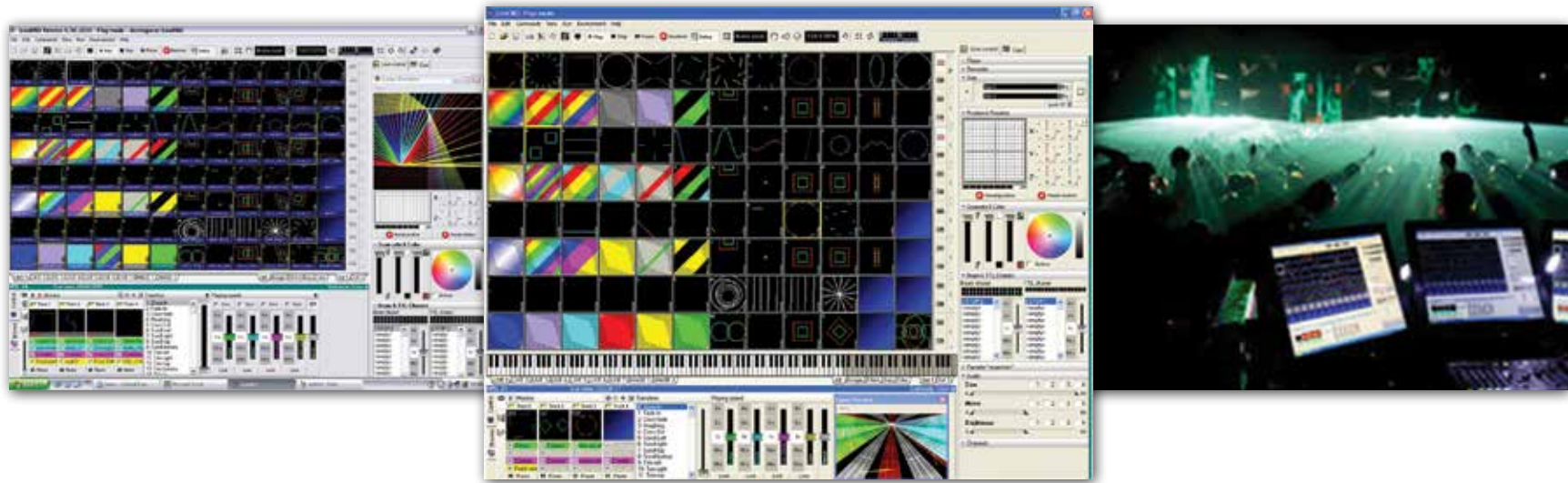




ADDITIONAL SOFTWARE

Additional software options for your laser show systems

LIVE PRO SOFTWARE



COMPATIBLE HARDWARE:



QM2000



FB3QS



FB3SE



ADDITIONAL SOFTWARE

Pangolin's LivePRO is like a synthesizer for laser shows, allowing accomplished laserists to make an enthralling visual experience live and in real time.

LivePRO includes over 1700 preset cues that you can layer (up to four beam and graphic cues at once) while allowing you to change cues in smooth transitions such as morphing, fading, zooming, etc.

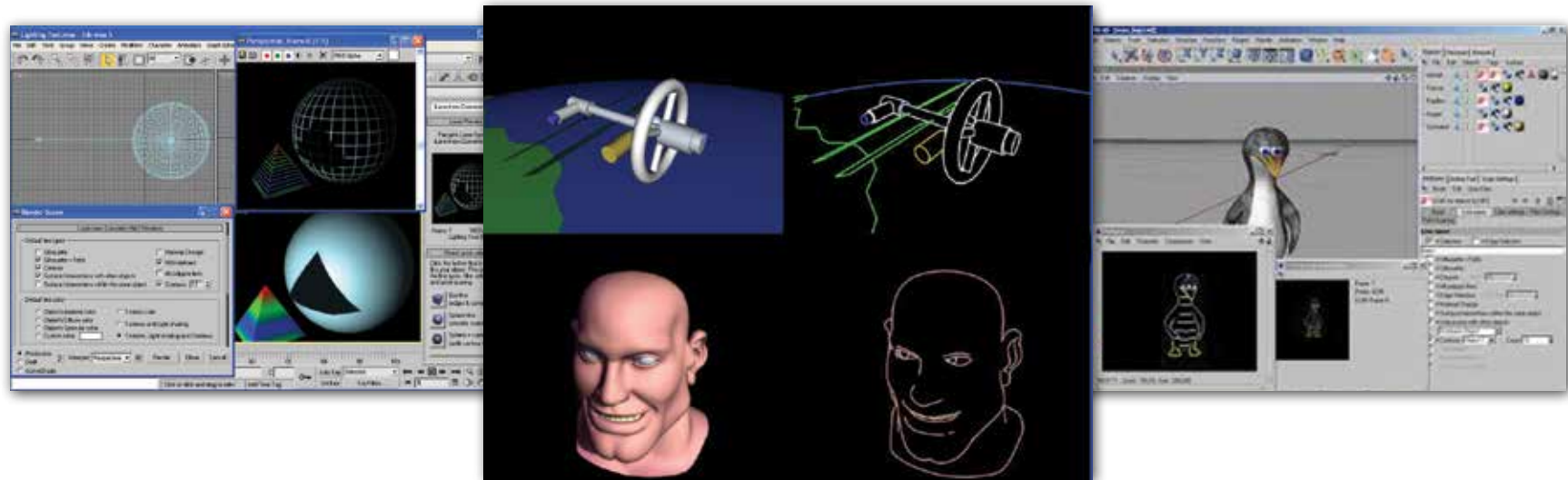
In live music, the beat is the key. You can listen to the beat and play LivePRO manually using the computer keyboard, or you can allow LivePRO to run itself using

LivePRO's music detection system to automatically trigger cues according to the patterns that you define.

While these automatic functions are running, you can change additional parameters manually, or just sit back and enjoy the show.

LivePRO will work with QM2000 based systems, as well as any Flashback 3 series device.

LASERSHOW CONVERTER MAX



COMPATIBLE HARDWARE:



QM2000

Now you can make sophisticated laser images by working directly with standard 3D computer graphics.

This is accomplished by Lasershow Converter MAX, Pangolin's plug-in for the program 3D Studio MAX.

The plug-in enables computer graphic artists to convert 3D objects and scenes into laser outlines. The result can be as simple as a single-frame logo, or as complex as an animated flythrough of a city.

Lasershow Converter MAX is an amazing advance in software for use with laser displays. It is so advanced, it has received a 2001 First Place ILDA Fenning Award for Technical Achievement.

Lasershow Converter MAX will work with the QM2000 hardware.



**ADDITIONAL
SOFTWARE**

SMS 2 LASER



COMPATIBLE HARDWARE:



QM2000



FB3QS



FB3SE



ADDITIONAL SOFTWARE

The SMS2Laser product allows people to send a text message, and for that text message to be displayed in laser to the public (on all types of different surfaces) for everyone to see. SMS2Laser is great in live settings such as nightclubs, concerts, sporting event, and festivals.

It comes with Pangolin's LivePRO software included, so this is a great combination package for lasershow users.

Allow people in your audience to share their thoughts with the world.

SMS2Laser will work with the QM2000 hardware and with all the Flashback 3 hardware options.

The SMS2Laser package includes a GSM modem for FREE.

LIGHT CONVERSE PLUGIN

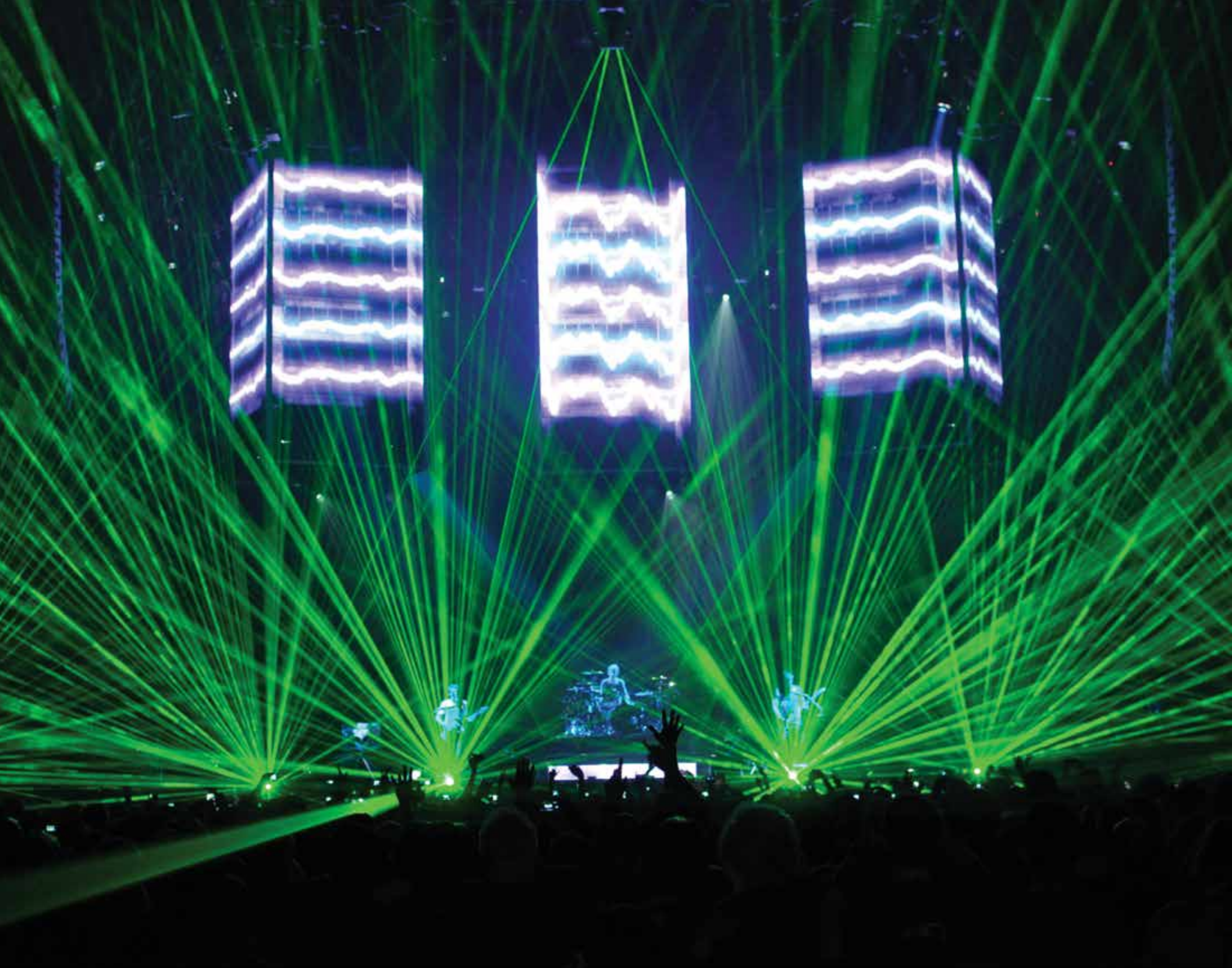


Pangolin provides the ability to visualize the output of all LD2000, BEYOND, and LivePRO programs through a customized version of the Light Converse stage modeling and visualization program. Light Converse is a program that does real time photorealistic rendering of lights, trusses, staging, video, pyro, and now lasers.

Professional users will enjoy the ability to show clients mock stages of how their laser shows will look along with other multimedia content.



**ADDITIONAL
SOFTWARE**





ScannerMAX PRODUCT LINE

Optical Scanners and Actuators for laser entertainment applications

ScannerMAX - GALVANOMETER-BASED OPTICAL SCANNERS



Saturn 1
(1mm - 3mm apertures)



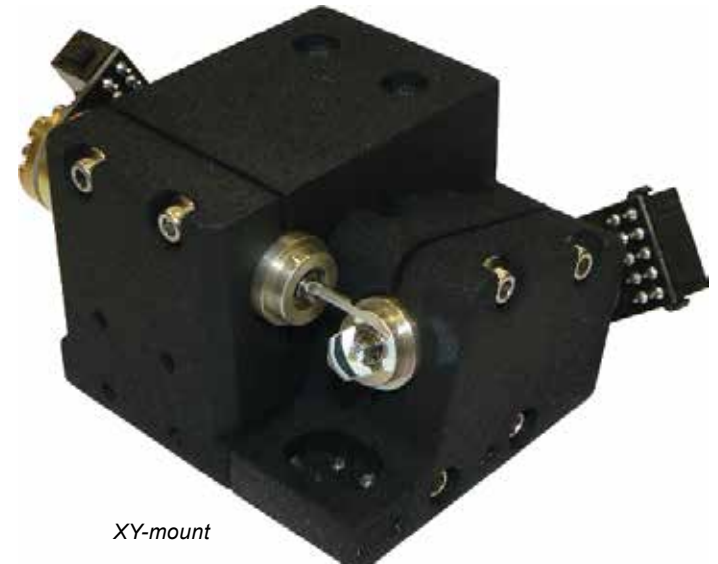
Saturn 3
(3mm - 6mm apertures)



Saturn 5
(3mm - 8mm apertures)



Compact 506
(Up to one-inch
round apertures)



XY-mount



SCANNERMAX

ScannerMAX is a division of Pangolin Laser Systems, specializing in galvanometer-based optical scanners. Our scanners utilize an all-new patented design, which allows them to outperform other conventional optical scanners on the market. The ScannerMAX advantage is achieved by applying three mechanical principles:

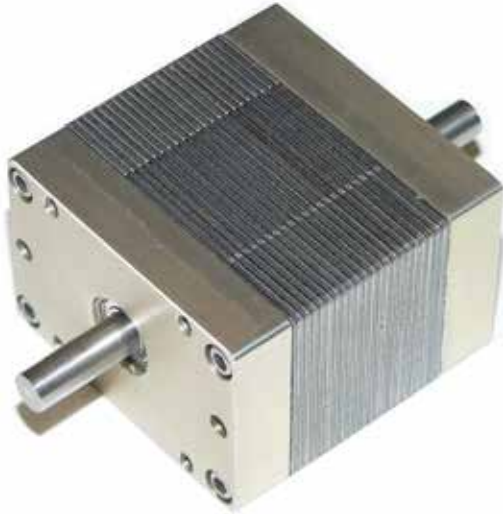
STRONGER - The ScannerMax galvanometer design incorporates a visibly stronger rotor and shaft, along with a highly-durable mirror mounting scheme. In addition, we use special bearing materials and a stronger position feedback to ensure optimal performance. These differences help to improve accuracy by avoiding resonances -- ultimately making your images look better.

COOLER - ScannerMAX scanners incorporate a unique motor design, which reduces heat generated during scanning, while also allowing any heat that is generated to be dissipated effectively. Since heat is known to limit lifetimes in some applications and is a performance barrier to others, the result is longer lasting scanners that prevail in even the most demanding applications.

FASTER - When you combine the stronger rotor design with the cooler-running motor, the result is scanning speeds that are faster than conventional galvanometers. More information about the ScannerMAX division of Pangolin is available online at our website:

www.ScannerMAX.com

VERSATILE ROTARY ACTUATOR DEVICE - VRAD



VRAD - 1510



VRAD - 0506

VRAD stands for Versatile Rotary Actuator, and is the acronym used to describe our new line of rotary actuator devices. VRAD actuators have a “passing shaft” which allows multiple things to be simultaneously controlled, or alternatively for the use of an encoder or position sensor to be integrated. VRAD actuators also give you access to two drive coils, so you can drive them in a variety of ways. And in addition, VRAD actuators offer a linear angle-versus-current profile, which simplifies the control and the high coil resistance eases drive requirements.

Currently there are two VRAD models - the 1510 and 506. The 1510 model is 1.5 inches by 1.0 inches, and

having a 1.5 inch depth. The 0506 is 0.5 inch round, and having a 0.6 inch depth. Both work in a similar fashion, and have similar attributes.

We can easily and practically instantly (on an order-by-order basis) customize the magnetic return spring aspect for the 1510, so this means we can customize the angle-versus-current profile to suit your needs.

The VRAD actuators can be used for a variety of jobs including optical-related tasks such as shutters, choppers, filter positioners, etc.

See more information on: www.ScannerMAX.com.



SCANNERMAX





PANGOLIN TEXT MESSAGE SYSTEMS AND VIRTUAL DJ PLUGINS

Text to screen and mobile marketing software systems for DJs, Entertainers, and Live Events

IMU ESSENTIALS SOFTWARE



SMS

IMU Essentials is a software-only product from Pangolin, which allows people in your audience to send messages to a display screen that is set up at your venue or event.

The software allows you to run text-to-screen, SMS voting (and Text to Win using the SMSvoting feature), SMS song request, and other popular text message applications.

In addition, it is a powerful mobile marketing software, since each person who sends a text message, also sends his cell phone number, which is automatically stored in the software's database. This database can

be later used for sending bulk SMS messages to those people, letting them know about upcoming promotions, specials, or events.

IMU Essentials does not include any hardware with it. Instead, you can use it with your existing modem or cell phone. We recommend using the Huawei modem, model E182E.

INTERACTIVE MESSAGING UNLIMITED - IMU



IMU is a complete text to screen system from Pangolin, which allows people in your audience to text messages to a display screen set up at your venue or event.

It is a combination of software and hardware package. The software allows you to run text-to-screen, SMS voting (and Text to Win using the SMS voting feature), SMS song request, and other popular text message applications.

In addition, it is a powerful mobile marketing software, since each person who sends a text message, also sends his cell phone number, which is automatically

stored in the software's database. This database can be later used for sending bulk SMS messages to those people, letting them know about upcoming promotions, specials, or events.

The IMU software is available in two versions, Advanced and PRO. The differences between the Advanced and PRO versions are explained in detail on our dedicated website. The IMU package includes the IMU software, a GSM modem, the tutorial DVD, a user manual, and a FREE shipping.



SMS

VIRTUAL DJ PLUGINS



SMS

Pangolin offers several plugins for the Atomix Virtual DJ software. These plugins allows Virtual DJ users to integrate the latest text to screen and mobile marketing tools into the Virtual DJ software.

Essential Visuals: When used in conjunction with any of Pangolin's IMU software products, Essential Visuals allows you to incorporate text-to-screen, SMS voting, and other elements of the IMU software into Virtual DJ.

Essential Media: This plugin gives you the best in media playback and karaoke. It supports SWF, CDG, FLV, WMV, AVI, ASF, MOV, MP4, M4V, MKV, VOB, TS, OGV,

3GP and DIVX files. Allows quick loading of clips within Virtual DJ, and you can use up to 48 video clips divided into four banks. You can use VDJ script to control Essential Media from your external controller. You can run it in autoplay, random or manual playback mode. It allows you to incorporate cross fades, and stretch and aspect scaling functions. You can even embed a live camera feed directly into Virtual DJ and it gives alpha channel support for any video format that Essential Media supports.



COMPLEMENTARY PRODUCTS

Additional laser related products

REPLACEMENT INSTALL DISK SET

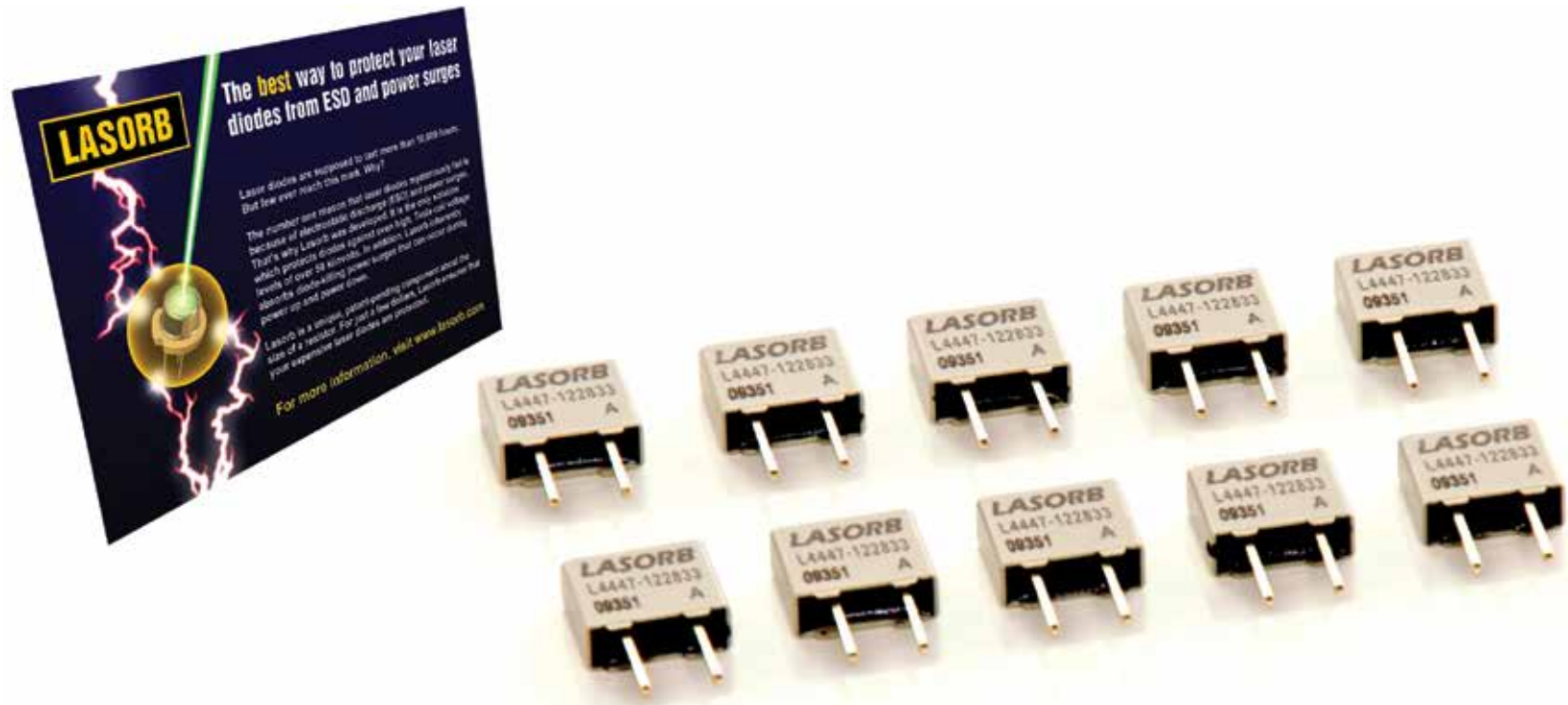


COMPLEMENTARY PRODUCTS

There may come a time when you wish to have a replacement installation disk for one of your Pangolin software products. Or you may just want to have a back up disks in case of an emergency.

Pangolin offers an option of purchasing a replacement disk, for any of our software products. Should you require one of these, please contact Pangolin directly.

LASORB - THE ESD ABSORBER FOR LASER DIODES



LASORB is the world's first and the only electronic component guaranteed to protect laser diodes from direct and indirect electrostatic discharge (ESD), as well as power surges.

It was developed in 2008 by Pangolin President and CTO William R. Benner Jr., and it received an ILDA award for technical achievement.

LASORB protects laser diodes, super luminescent diodes, and LED's from single, multiple and repeated ESD events, of both positive and negative polarity. LASORB's primary means of protection is a slew-rate detector that monitors the voltage across the pins of the

laser diode. If there is a fast change in voltage detected, this triggers LASORB to aggressively conduct the current (and thus voltage) away from the laser diode.

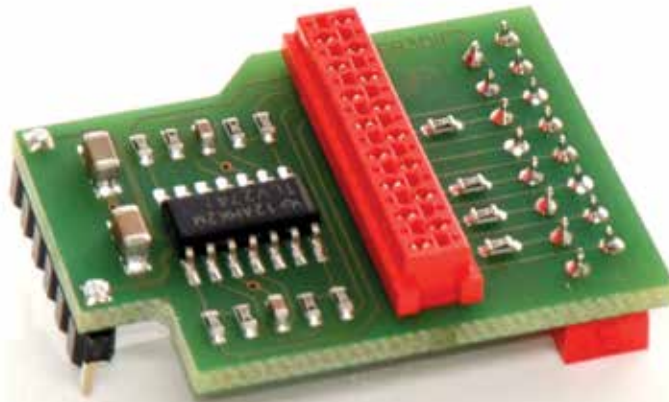
We manufacture a variety of LASORB components, optimized for Red, IR, Blue, and Green laser diodes. We can also make adjustments to LASORB to meet customer requests. Many of the world's leading laser companies, in both entertainment and industrial laser applications, trust LASORB to protect and extend the lifetime of their laser diodes.

Make sure your lasers are protected by LASORB!



**COMPLEMENTARY
PRODUCTS**

DIFFERENTIAL DAUGHTERBOARD FOR FB3SE



**COMPLEMENTARY
PRODUCTS**

Pangolin's FB3SE only outputs single ended signals. Some clients may prefer to use a differential output with the FB3SE. It mounts on the top of the Flashback DMX daughterboard.

Pangolin offers you an option to purchase a differential daughterboard for your FB3SE. If you are interested in this option, please contact Pangolin directly.

512MB MEMORY UPGRADE

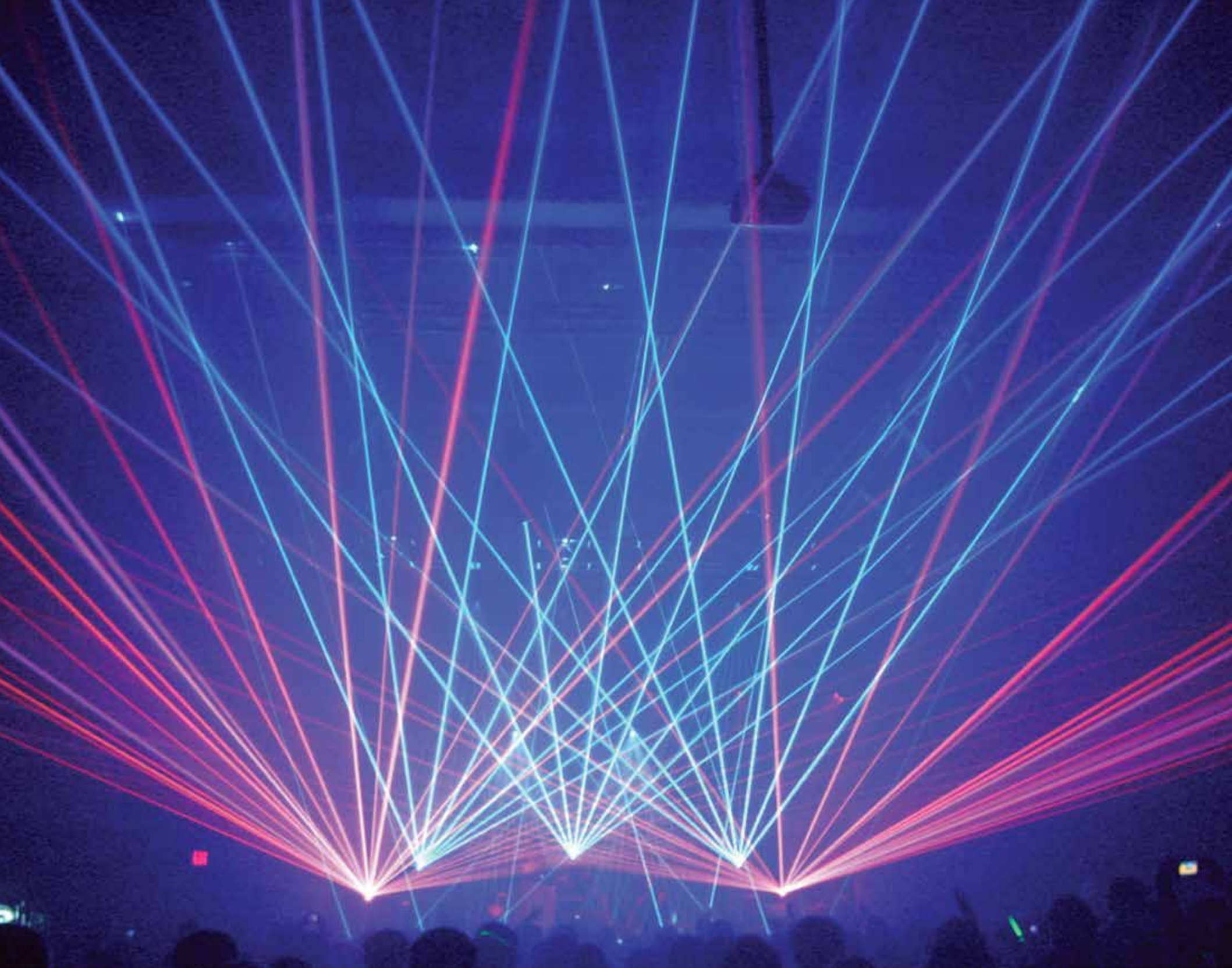


Currently the QM2000 hardware that ships with LD2000 and BEYOND systems comes standard with 256MB of memory. If you make very complex shows that require more memory, you may want to consider increasing the amount of memory on your QM2000 board.

Pangolin offers this option to our clients who require more memory for their shows. You can purchase your system with 512MB memory installed, or you can send an existing QM2000 board back to Pangolin for a 512MB memory upgrade.



**COMPLEMENTARY
PRODUCTS**

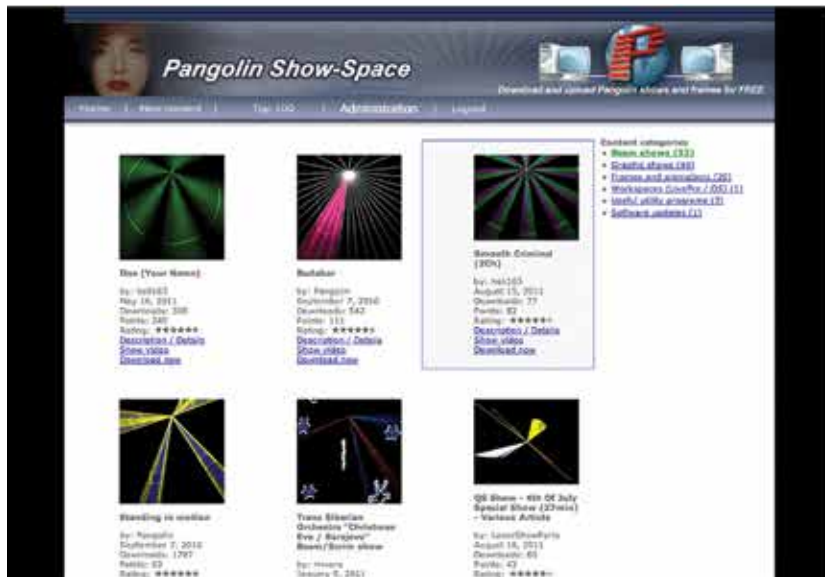




PANGOLIN BONUSES

Thank you for your business

PANGOLIN BONUSES



BONUSES

When you become a Pangolin client, you are entitled to a variety of special bonuses, that only Pangolin provides.

These include access to the Pangolin Shows Portal, where you can obtain a variety of FREE laser light shows, for all of our laser control software programs. In addition, you can also upload shows to share with other Pangolin clients around the world.

You also receive FREE access to the Pangolin Forums, where thousands of laserists from around the world join to share thoughts, ideas, and answer questions surrounding Pangolin and our products. We also give

you FREE Customer Support, nearly 24-hours a day, from our United States, European, and China offices.

Finally, you also get a complimentary copy of our newsletter, and are welcomed to join us on social media sites including Facebook, Twitter, and YouTube. These media sources ensure that you have the latest news and product information coming from Pangolin and also offer a fun and interactive place to share our passion for the laser industry.

This is all done in an effort to make your entire experience with Pangolin first class all the way.



We at Pangolin would like to thank you for viewing our product catalog, and considering our products for your application. It is our goal to provide you with the very best in product quality, customer service, and support and we look forward to the opportunity to work with you in the near future.

If you have any further questions about the products in this catalog, or if you need any additional information, please feel free to contact us anytime.

Wishing you the very best!

Team Pangolin



BONUSES





PANGOLIN LASER SYSTEMS

WWW.PANGOLIN.COM